

In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-8. (Cancelled)

9. (New) A fluid turbine, comprising:

a rotor and blade assembly, including:

a rotor, the rotor being rotatable about a rotation axis;

a plurality of blades, each of the blades having a tip, the blade tips defining a blade tip radius with respect to the rotation axis;

a fluid displacement head arrangement blocking off at least 50% of the blade tip radius from the rotation axis towards the blade tips, the fluid displacement head arrangement shaped to redirect blocked-off fluid towards the blades extending radially beyond a blocked-off area.

10. (New) The fluid turbine of claim 9, further comprising:

an annular fluid intake scoop and flow through encasement assembly surrounding the rotor and blade assembly, the encasement assembly having an interior surface and an exterior surface.

11. (New) The fluid turbine of claim 10, wherein the interior surface of the encasement assembly has a fluid velocity increasing surface forward of the blades, the fluid velocity increasing surface being shaped to increase the velocity of fluid entering the turbine.

12. (New) The fluid turbine of claim 11, wherein the fluid velocity increasing surface is S-shaped.

13. (New) The fluid turbine of claim 12, wherein the interior surface of the encasement assembly has an expanding exhaust channel surface rearward of the blades.

14. (New) The fluid turbine of claim 10, wherein the interior surface of the encasement assembly has an expanding exhaust channel surface rearward of the blades.

15. The fluid turbine of claim 13, wherein the exterior surface of the encasement assembly is shaped to form an airfoil to provide converging airflow for augmenting exhaust from the turbine.
16. The fluid turbine of claim 14, wherein the exterior surface of the encasement assembly is shaped to form an airfoil to provide converging airflow for augmenting exhaust from the turbine.
17. The fluid turbine of claim 10, wherein the exterior surface of the encasement assembly is shaped to form an airfoil to provide converging airflow for augmenting exhaust from the turbine.
18. The fluid turbine of claim 9, wherein the fluid displacement head arrangement is, at least in part, spherical.
19. The fluid turbine of claim 10, wherein the fluid displacement head arrangement is, at least in part, spherical.
20. The fluid turbine of claim 12, wherein the fluid displacement head arrangement is, at least in part, spherical.
21. The fluid turbine of claim 14, wherein the fluid displacement head arrangement is, at least in part, spherical.
22. The fluid turbine of claim 17, wherein the fluid displacement head arrangement is, at least in part, spherical.
23. The fluid turbine of claim 10, wherein each of the blades has a controllable blade pitch.
24. The fluid turbine of claim 10, further comprising a rotatable support constructed and arranged to permit the fluid turbine to be rotatably supported on a support tower.
25. The fluid turbine of claim 10, wherein the blades are in two spaced-apart rows.

26. The fluid turbine of claim 25, further comprising a plurality of flow stabilizers in between the rows of blades.
27. The fluid turbine of claim 10, wherein the fluid turbine is a wind turbine.
28. The fluid turbine of claim 10, wherein the fluid turbine is a water turbine.